

Chapter 2 – Definitions

Section 202 – Definitions

DRIVE-UP ELECTRIC VEHICLE (EV) CHARGER. *An electric vehicle charger in which use is limited to 30 minutes maximum and is provided at a location where the electric vehicle approaches in the forward direction, stops in the vehicle space, charges the vehicle, and proceeds forward to depart the vehicle space. The arrangement of a drive-up electric vehicle charger and its associated vehicle space is similar to a gasoline filling station island.*

ELECTRIC VEHICLE (EV). *An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For the purpose of this code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.*

ELECTRIC VEHICLE (EV) CHARGER. *That portion of electric vehicle supply equipment used by an electric vehicle operator or designee to charge an electric vehicle, such as outlets, connectors, and user interface. Parts that are intended for use only by service or maintenance personnel are not included.*

ELECTRIC VEHICLE (EV) CONNECTOR. *A device that, when electrically coupled (conductive or inductive) to an electric vehicle inlet, establishes an electrical connection to the electric vehicle for the purpose of power transfer and information exchange. This device is part of the electric vehicle coupler.*

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). *The conductors, including the ungrounded, grounded, and equipment grounding conductors, and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.*

**Chapter 11B – Accessibility to Public Buildings, Public Accommodations,
Commercial Buildings and Public Housing**

Division 2 – Scoping

11B-202 Existing buildings and facilities

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11B-202.4 Path of travel requirements in alterations, additions and structural repairs.

When alterations or additions are made to existing buildings or facilities, an accessible path of travel to the specific area of alteration or addition shall be provided. The primary accessible path of travel shall include:

1. A primary entrance to the building or facility,
2. Toilet and bathing facilities serving the area,
3. Drinking fountains serving the area,
4. Public telephones serving the area, and
5. Signs.

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Exceptions:

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10. Alterations solely for the purpose of installing electric vehicle chargers and vehicle spaces at sites where vehicle fueling, recharging, parking or storage is a primary function shall comply with Section 11B-202.4 to the maximum extent feasible without exceeding 20 percent of the cost of the work directly associated with the installation of electric vehicle chargers and vehicle spaces.

Alterations solely for the purpose of installing electric vehicle chargers and vehicle spaces at sites where vehicle fueling, recharging, parking or storage is not a primary function shall not be required to comply with Section 11B-202.4.

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11B-208 Parking spaces

11B-208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with Section 11B-208. For the purposes of this section, electric vehicle spaces are not parking spaces; see Section 11B-228.

Exception: ...

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11B-228 Depositories, vending machines, change machines, mail boxes, and fuel dispensers, and electric vehicle chargers

11B-228.1 General. Where provided, at least one of each type of depository, vending machine, change machine, and fuel dispenser shall comply with Section 11B-309.

Exception: Exceptions:

1. Drive-up only depositories shall not be required to comply with Section 11B-309.
2. Electric vehicle chargers and vehicle spaces shall comply with Section 11B-228.3.

11B-228.2 Mail boxes. Where mail boxes are provided...

11B-228.3 Electric vehicle chargers

11B-228.3.1 General. *Where electric vehicle (EV) chargers are provided, EV chargers and associated vehicle spaces shall be provided in accordance with Section 11B-228.3.*

11B-228.3.1.1 Existing Facilities. *Where new EV chargers and vehicle spaces are added to a facility with existing EV chargers and vehicle spaces, the requirements of Section 11B-812 shall apply only to the new EV chargers and vehicle spaces installed. Alterations to existing EV chargers and vehicle spaces shall comply with Section 11B-228.3.*

11B-228.3.1.2 Operable parts. *Where EV chargers are provided, operable parts on all EV chargers shall comply with Section 11B-309.4.*

11B-228.3.2 Minimum number. *EV chargers and vehicle spaces complying with Section 11B-812 shall be provided in accordance with Section 11B-228.3.2. Where EV chargers are provided in more than one parking facility on a site, the number of EV chargers and vehicle spaces complying with Section 11B-228.3.2 provided on the site shall be calculated according to the number required for each parking facility. When an EV charging unit can simultaneously charge more than one vehicle, the number of EV chargers provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.*

Exceptions:

- 1.** *EV chargers and vehicle spaces not available to the general public and intended for use by a designated vehicle or driver shall not be required to comply with Section 11B-228.3.2. Examples include, but are not limited to, EV chargers and vehicle spaces serving public or private fleet vehicles and EV chargers and vehicle spaces assigned to an employee.*
- 2.** *In public housing facilities, EV chargers and vehicle spaces intended for use by an EV owner or operator at their residence shall not be required to comply with Section 11B-228.3.2.*

11B-228.3.2.1 Public use or common use EV chargers and vehicle spaces. *Where EV chargers are provided for public use or common use, EV chargers and vehicle spaces complying with Section 11B-812 shall be provided in accordance with Table 11B-228.3.2.1.*

Exception: *All drive-up EV chargers and vehicle spaces shall comply with Section 11B-812.*

TABLE 11B-228.3.2.1
ELECTRIC VEHICLE CHARGERS AND VEHICLE SPACES FOR
PUBLIC USE AND COMMON USE

<u>Total Number of EV Chargers at a Facility¹</u>	<u>Minimum Number (by type) of Electric Vehicle Chargers and Vehicle Spaces Required to Comply with Section 11B-812¹</u>		
	<u>Van Accessible</u>	<u>Standard Accessible</u>	<u>Ambulatory Accessible</u>
<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>
<u>2</u>	<u>1</u>	<u>1</u>	<u>0</u>
<u>3 to 4</u>	<u>1</u>	<u>1</u>	<u>1</u>
<u>5 to 10</u>	<u>1</u>	<u>1</u>	<u>2</u>
<u>11 to 20</u>	<u>1</u>	<u>1</u>	<u>3</u>
<u>21 to 50</u>	<u>1</u>	<u>1</u>	<u>4</u>
<u>51 to 100</u>	<u>1</u>	<u>1, plus 1 for each 25, or fraction thereof, over 50</u>	<u>6</u>
<u>101 and over</u>	<u>1, plus 1 for each 300, or fraction thereof, over 100</u>	<u>3, plus 1 for each 50, or fraction thereof, over 100</u>	<u>6, plus 1 for each 25, or fraction thereof, over 100</u>

Notes:

1. Where an EV charging unit can simultaneously charge more than one vehicle, the number of EV chargers provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

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**Chapter 11B – Accessibility to Public Buildings, Public Accommodations,
Commercial Buildings and Public Housing**

Division 3 – Building Blocks

11B-309 Operable parts

11B-309.1 General. Operable parts shall comply with Section 11B-309.

11B-309.2 Clear floor space. A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308.

11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

Exception: Gas pump nozzles and electric vehicle connectors shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

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**Chapter 11B – Accessibility to Public Buildings, Public Accommodations,
Commercial Buildings and Public Housing**

Division 8 – Special Rooms, Spaces, and Elements

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11B-812 Electric vehicle chargers and vehicle spaces

11B-812.1 General. Electric vehicle (EV) chargers and vehicle spaces shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.

Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level and slopes exceeding 1:48 shall not be permitted.

11B-812.4 Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum.

11B-812.5 Accessible routes

11B-812.5.1 Accessible route to building or facility. EV chargers and vehicle spaces complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with 11B-206.4. Where EV chargers and vehicle spaces serve more than one accessible entrance, EV chargers and vehicle spaces complying with Section 11B-812 shall be dispersed and located on an accessible route to the accessible entrances. Where EV chargers and vehicle spaces do not serve a particular building or facility, EV chargers and vehicle spaces complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: EV chargers and vehicle spaces complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.

11B-812.5.2 Accessible route to EV charger. An accessible route complying with Section 11B-402 shall be provided between the vehicle space and the EV charger which serves it.

11B-812.5.3 Relationship to accessible routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-812.5.4 Arrangement. Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.

Exceptions:

1. Ambulatory accessible vehicle spaces shall not be required to comply with Section 11B-812.5.4.
2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.

11B-812.5.5 Obstructions. EV chargers and vehicle spaces shall be designed so accessible routes are not obstructed by cables or other elements.

11B-812.6 Vehicle spaces. Van accessible, standard accessible, ambulatory accessible and drive-up vehicle spaces shall be 216 inches (5486 mm) long minimum and shall comply with Section 11B-812.6.1 through 11B-812.6.4 as applicable. All accessible vehicle spaces shall be marked to define their width.

Exceptions:

1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of accessible vehicle spaces shall be 240 inches (6096 mm) minimum.
2. Vehicle spaces at drive-up EV chargers shall be 240 inches (6096 mm) long minimum and shall not be required to be marked to define their width.

11B-812.6.1 Van accessible vehicle spaces. Van accessible vehicle spaces shall be 144 inches (3658 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.2 Standard accessible vehicle spaces. Standard accessible vehicle spaces shall be 108 inches (2743 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.3 Ambulatory accessible vehicle spaces. Ambulatory accessible vehicle spaces shall be 120 inches (3048 mm) wide minimum.

11B-812.6.4 Drive-up vehicle spaces. Vehicle spaces at drive-up EV chargers shall be 168 inches (4267 mm) wide minimum.

11B-812.7 Access aisle. Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches (1524 mm) wide minimum and shall extend the full required length of the vehicle spaces they serve.

11B-812.7.1 Location. Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.

11B-812.7.2 Marking. Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a minimum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue

color required for identification of access aisles for accessible parking shall not be used.
Access aisle markings may extend beyond the minimum required length.

11B-812.7.3 Lettering. The words “NO PARKING” shall be painted on the surface within each access aisle in letters a minimum of 12 inches (305 mm) in height and located to be visible from the adjacent vehicular way.

11B-812.8 Identification. EV charger and vehicle space identification signs complying with Section 11B-812.8 shall be provided in accordance with Table 11B-812.8 and shall include the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Signs identifying van accessible vehicle spaces shall contain the designation “van accessible.” Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

Exceptions:

1. Signs located within an accessible route shall be a minimum of 80 inches (2032 mm) above the finish floor or ground surface measured to the bottom of the sign.
2. Where a total of four or fewer EV chargers and vehicle spaces are provided on a site, identification of van accessible and standard accessible vehicle space shall not be required.
3. Drive-up and ambulatory accessible EV chargers and vehicle spaces shall not be required to comply with Section 11B-812.8.

TABLE 11B-812.8
IDENTIFICATION FOR ELECTRIC VEHICLE CHARGERS AND VEHICLE SPACES

<u>Total Number of EV Chargers and Vehicle Spaces Provided in Facility</u>	<u>Minimum Number of Van Accessible EV Chargers and Vehicle Spaces Required to be Identified</u>	<u>Minimum Number of Standard Accessible EV Chargers and Vehicle Spaces Required to be Identified</u>
<u>1 to 25</u>	<u>1</u>	<u>0</u>
<u>26 to 50</u>	<u>1</u>	<u>1</u>
<u>51 to 75</u>	<u>1</u>	<u>2</u>
<u>76 to 100</u>	<u>1</u>	<u>3</u>
<u>101 to 150</u>	<u>1</u>	<u>4</u>
<u>151 to 200</u>	<u>1</u>	<u>5</u>
<u>201 to 300</u>	<u>2</u>	<u>5</u>
<u>301 to 400</u>	<u>2</u>	<u>6</u>
<u>401 to 500</u>	<u>2</u>	<u>7</u>

11B-812.8.1 Finish and size. Identification signs shall be reflectorized with a minimum area of 70 square inches (45,161 mm²).

11B-812.8.2 Location. An identification sign shall be visible from each vehicle space. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

11B-812.9 Electric vehicle chargers.

11B-812.9.1 General. *EV chargers shall comply with Section 11B-812.9.*

11B-812.9.2 Operable parts. *Operable parts and charging cord storage shall comply with Section 11B-309.*

11B-812.9.3 Point-of-sale devices. *Where provided, point-of-sale devices shall comply with Section 11B-707.9.*

11B-812.9.4 Location. *EV chargers shall be adjacent to, and within the projected width of the vehicle space being served.*

Exceptions:

- 1. EV chargers serving more than one vehicle space shall be adjacent to, and within the combined projected width of the vehicle spaces being served.**
- 2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches (914 mm) maximum from the head end of the space.**
- 3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches (1219 mm) maximum from the head end or foot end of the vehicle space or access aisle being served.**

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